
NAS NORTH ISLAND - NAVY REGION SOUTHWEST

NAVY ENVIRONMENTAL LEADERSHIP PROGRAM

CLEANUP**ENVIRO-CORE CONTINUOUS SOIL CORE SAMPLER****LEAD ACTIVITY**

Naval Air Station (NAS) North Island

STATUS

Completed

MISSION

Obtain continuous soil cores in unconsolidated sediment

DESCRIPTION

The Enviro-Core sampling system developed by Precision Sampling, Inc. (PSI) was demonstrated to evaluate the technology's effectiveness in collecting continuous soil cores, soil gas samples, and groundwater samples in unconsolidated sediments at NAS North Island, Site 9. The Enviro-Core system consists of a dual-wall rod and core barrel that are simultaneously pushed, driven, or vibrated into the ground. The system is capable of collecting 3-foot long continuous soil cores inside the 1 5/8-inch diameter core barrel. The cores are collected in stainless steel liners inside the inner sample barrel and are retrieved by wireline. During sample collection the drive casing is left in place and serves as temporary casing to prevent the borehole from collapsing. The drive casing also prevents vertical cross-contamination, ensures that the core barrel collects representative samples rather than slough, and allows depth-discrete groundwater sampling with a 3/4 inch diameter bailer.

The Enviro-Core system claims to offer a quick and cost effective alternative to traditional drilling techniques. Because no drill cuttings are generated which eliminates the costs of waste management, treatment, and disposal.

ACCOMPLISHMENTS/CURRENT STATUS

Date	Activity
March 1994	Field demonstration was conducted at Site 9.
FY 1995 & FY 1996	Enviro-Core system was used to collect soil and groundwater samples at Site 2, 5, and 7.

BIBLIOGRAPHY

- Vendor Brochure, Precision Sampling, Inc.

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